

FIG 1A. MRP3s1 Expression in normal tissues

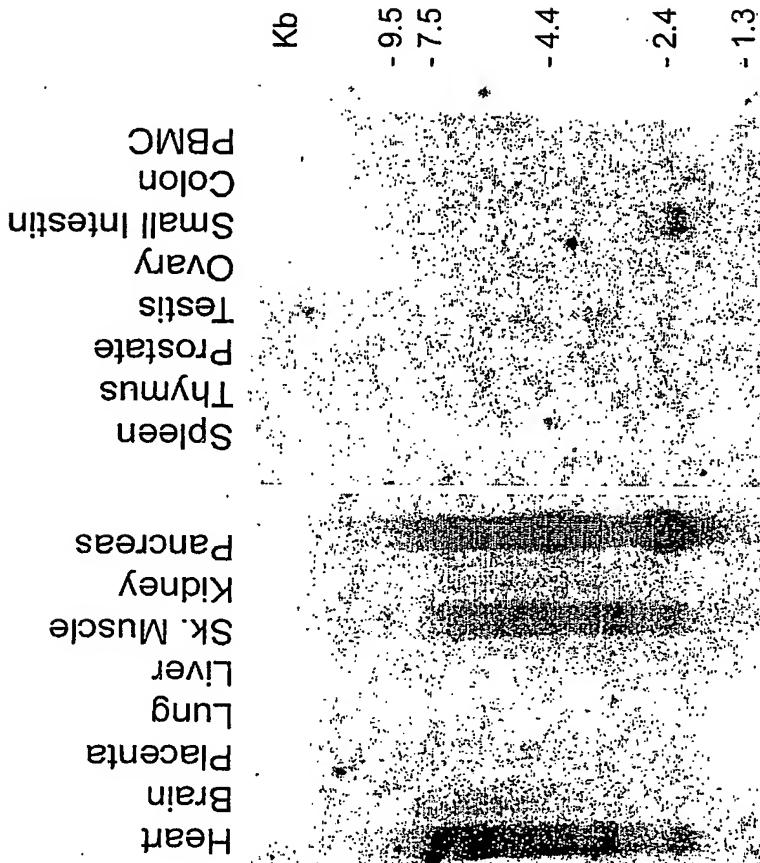


FIG 1B. MRP3s1 Expression in cancer cell lines

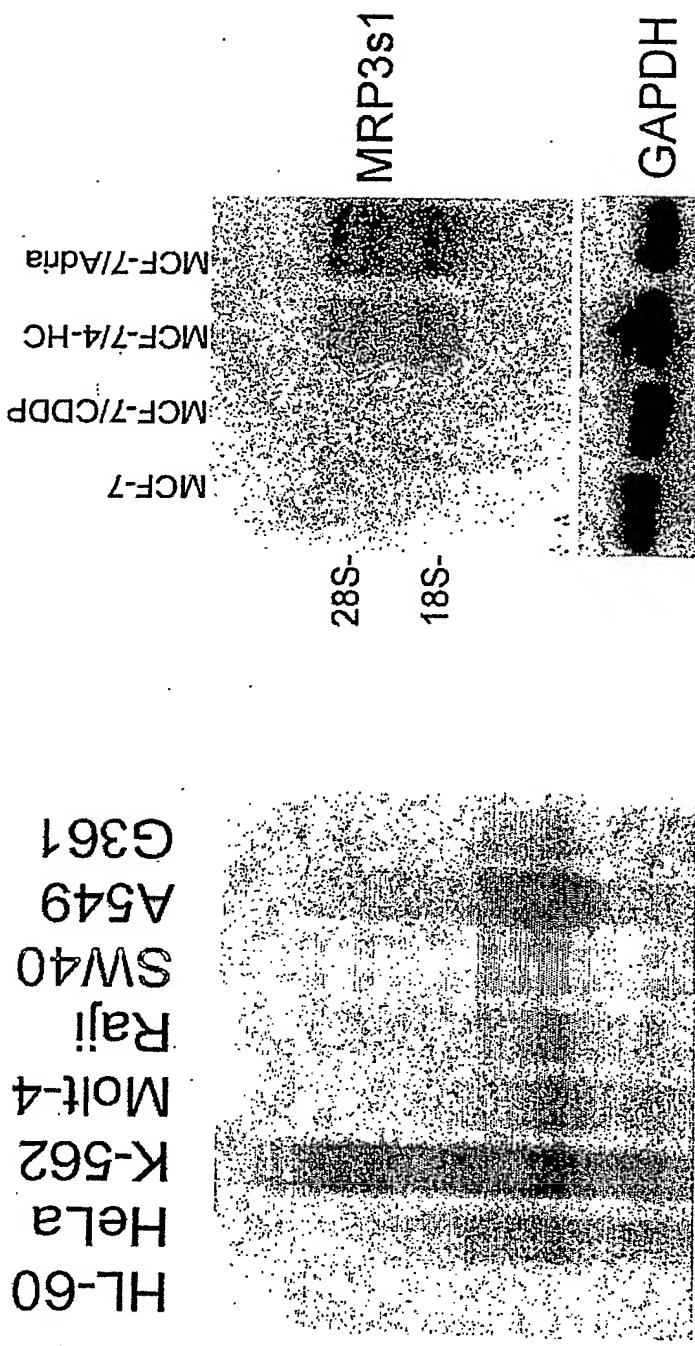
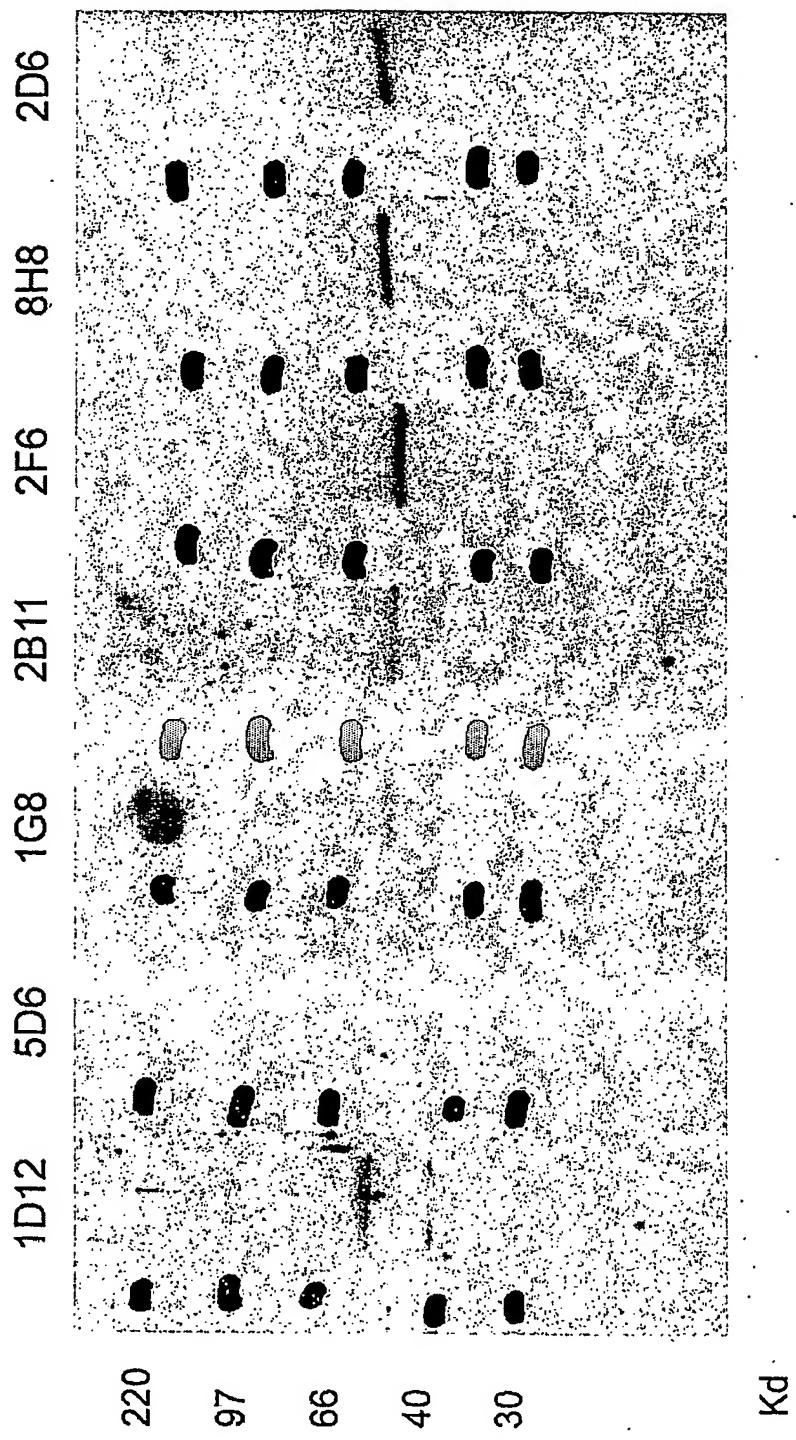


FIG. 2. Detection of MRP3s1 in HT-29 cells by different mAbs



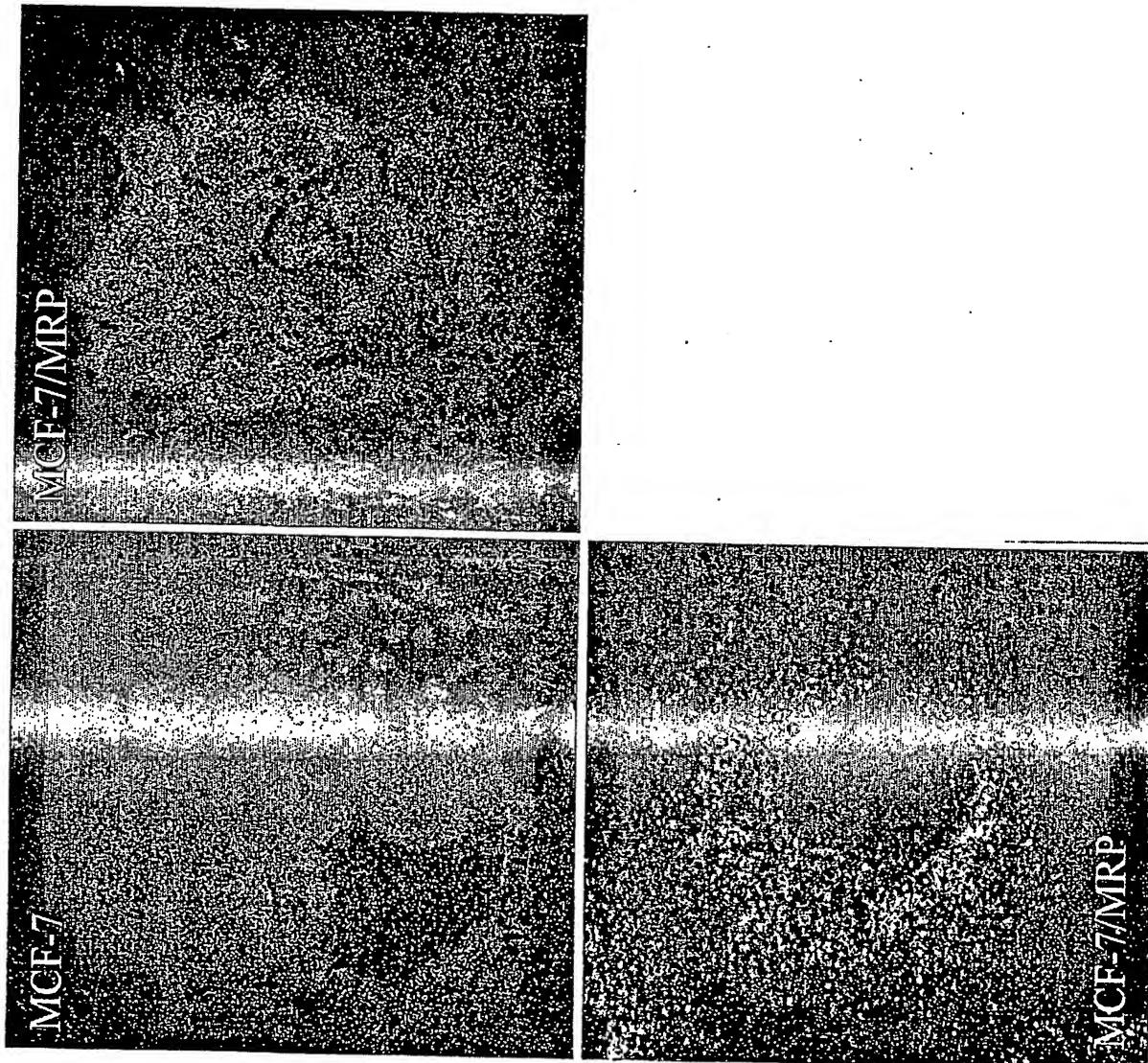


FIG. 3A. Overexpression of MRP3s1 in MCF-7 cells

FIG. 3B. Effect of MRP3s1 overexpression on drug sensitivity

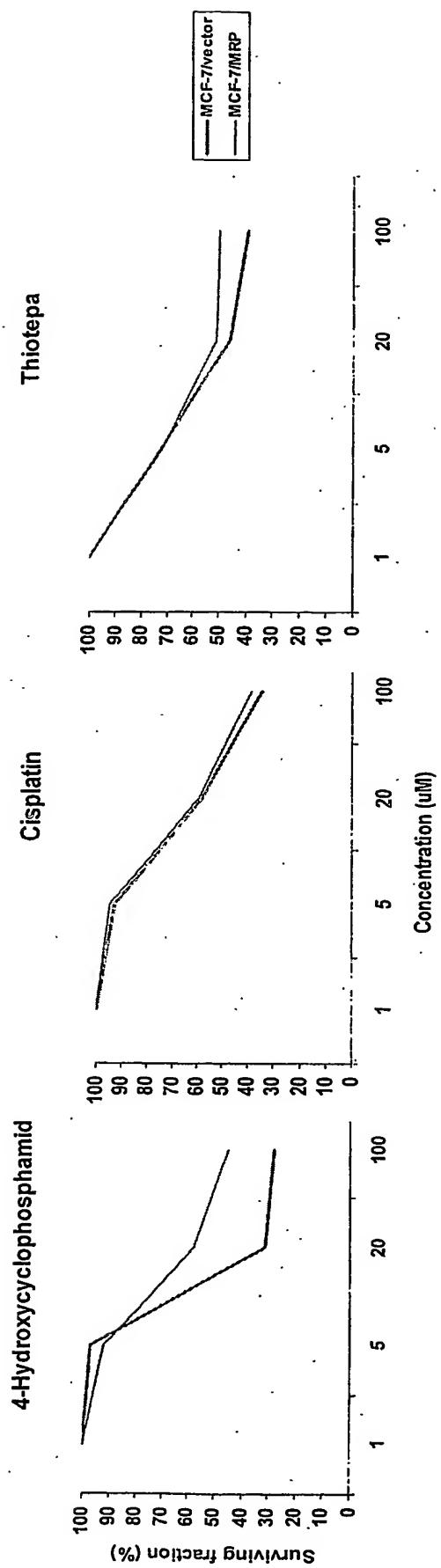


FIG. 4. Sequences for MRP3s1 nucleic acid, polypeptide and promoters.

1. MRP3s1 nucleotide sequence (SEQ ID NO: 1)

1 gtttcttgc ttgggggtgt tgtaaaaatg atcttgagc ttagccccaa aggacaaaca
61 gaatttcctct tgctctggg caagttgtag gtcatgtga caggtcagga cagtgttaggg
121 ctggcatacc gtcgctcac gttcacatgc ttgcagagaa cgtacacaga cgaggtgact
181 gaaggcttgt ctgcagggtca ggcaggcat cctgatgcc gcttgtactg tcaaagagtc
241 acctaactgc aaacggaatt ttgtaaagc agatcacatt gtaataacct caggtggctc
301 aaaccttgcg cgcgttggca aacaaaaaac aatccagaaa ggtcaatttt cacaagggtc
361 agtgtgcaca tgaatctact tttttttttt tacatggg ttcagtagac ctggatggg
421 gtcaggact ctgcacttgc atcaagactc ctgggtacgc aaagtgtggc ccatggggca
481 gttgcacatcac catcctctgg gagctgtta gaaatgaaga atctcagggtt ccaaggtccca
541 cctcagacta cagaatccgg cggtgcattt taacaagatt ctctggaaag tcttatacat
601 attaaagggtt gagaacaga accaaggcg aggtggctt tggtaatgc tgcactgtca
661 ctgccccaaagg ggtcattcg ggattacagc cccagctggc atgcctgtgg gcttgcattca
721 ggcacccaccc ggtcatccat gggctaggat cccatggatg ggcacatgtat ccaggaggtct
781 gaactccccc caaaaggcatt acgggtggga ggggagatcg ccatacgtat aaccaggatcc
841 ctttggc cag gtgacatttgc ctctgaactg gatgatacga atgatgtc tagatgtc
901 taacatcggt gctgtggaga gggtaaagg gtaactccaa acagagacag aggccccctg
961 ggtggggaa ggcaggccgc cttttttttt cttttttttt cttttttttt cttttttttt
1021 gaatttattct gtgcgttacc ggcggggctt agacctgggtt ctggatgtt cttttttttt
1081 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
1141 gaccctttgc ctgtccgc tccctggggc gggccggccctt gggccggccctt gggccggccctt
1201 caatgtggca gacatcgcc tccatgttacc ggcgttccgtt gggccggccctt gggccggccctt
1261 ccccatccctt ttctggggca ccctgcgttacc gggccggccctt gggccggccctt gggccggccctt
1321 ggaggacatt tgggggggtt tggagctgtt ccacctgttacc gggccggccctt gggccggccctt
1381 ggcaggccctg gactttccgtt gttttttttt tttttttttt tttttttttt tttttttttt
1441 gtcgtgttgc ctggggccggat tttttttttt tttttttttt tttttttttt tttttttttt
1501 cacagctgcc atcgacccgtt tttttttttt tttttttttt tttttttttt tttttttttt
1561 tgataccctgc actgtccgtt tttttttttt tttttttttt tttttttttt tttttttttt
1621 ggtcctggc ctggacaaagg tttttttttt tttttttttt tttttttttt tttttttttt
1681 agcttagagggc atcttctacg tttttttttt tttttttttt tttttttttt tttttttttt
1741 gagatttcctt cctggccctt tttttttttt tttttttttt tttttttttt tttttttttt
1801 gcagaatggc tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
1861 cttacagggtt aactgtgtt tttttttttt tttttttttt tttttttttt tttttttttt
1921 cacgcctaaag gtcacagctt tttttttttt tttttttttt tttttttttt tttttttttt
1981 aactgagtgtt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
2041 gtcctccctt tgatgggg tttttttttt tttttttttt tttttttttt tttttttttt
2101 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
2161 tactctgggg tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
2221 qttcaacaaa aaaaaaaaaaa aa

2. MRP3s1 polypeptide (SEQ ID NO: 2):

MIRMMSDLSENIVAVERVKEYSKTETEAPWVVEGSRPEGWPPRGVEFRNYSVRYRPGLDLVLRDLSLVHGGEKVGIVGRTGAGKSMTLCLFRILEAAKGEIRIDGLNVADIGLHDLRSQTLTIIPQDPILFSGTLLRMNLDPFGSYSEEDIWALELSHLHTFVSSQPAQLDFQCSEGGENLSVGQRQLVCLARALLRKSRLVLDEATAAIDLETDNLIQATIRTQFDTCTVLITIAHRLNTIMDYTRVLVLDKGVVAEFDSPANLIAARGIFYGMARDAGLA

3. MRP3s1 minimal promoter (SEQ ID NO: 3)

```

gaattctg ttgaataatc tctgtcctca aaccccacat ctcttcctg ctcagccgtc
gaccttgcct gacaccc tac agttcaactg gagagacccc catcagcagg agattgtgct
gcaggctgag caggctttg tggctggaga aacaaaatgt tttaaaagcc cagaagaggg
actgggtgca gtggctcaca cctaattcca gcactttggg aggccggaggt gggcgatca
cctgaggcca ggagctccag aacagcctgg ccaacatgtt gaaaccctat ctctacttaa
atacaaaaat tagccagccg tggtggcggg catctgtat cccagctact caggaggtg
aggcaggaga atagctt gaa cctgggaggc agaggtt gca gtgagccaag atcacgccac
tgcaactccag cctgggtgac agagcgagac tccatctcaa gagagaaaaa aaaaaagtcc
agaggagttt tcttgctttg gggtgtt gta gaaatgatct tggagcttag ccccaaagga
caagga

```

4. MRP3s1 promoter (SEQ ID NO: 4)

```

1 atgaagggcc tggacccca ggcaggccca ccactggac agaaaccaca caggtgttcc
61 aggcatctcc cgagtgc ccc tccctgctca gtatggcac cagccacagg gtctgttctc
121 aaggactgtg agaaaaaaaaaaa aaatcattga gttgacaagt ttataaccac
181 acaccatggc tggatgttcc tactttcctt ccccaagaag cccatgttct cacattcaga
241 aagaattctg ttgaataatc tctgtcctca aaccccacat ctcttcctg ctcagccgtc
301 gaccttgcct gacaccc tac agttcaactg gagagacccc catcagcagg agattgtgct
361 gcaggctgag caggctttg tggctggaga aacaaaatgt tttaaaagcc cagaagaggg
421 actgggtgca gtggctcaca cctaattcca gcactttggg aggccggaggt gggcgatca
481 cctgaggccca ggagctccag aacagcctgg ccaacatgtt gaaaccctat ctctacttaa
541 atacaaaaat tagccagccg tggtggcggg catctgtat cccagctact caggaggtg
601 aggcaggaga atagctt gaa cctgggaggc agaggtt gca gtgagccaag atcacgccac
661 tgcaactccag cctgggtgac agagcgagac tccatctcaa gagagaaaaa aaaaaagtcc
721 agaggagttt tcttgctttg gggtgtt gta gaaatgatct tggagcttag ccccaaagga
781 caagga

```

5. MRP3s1 promoter 276 bp region (SEQ ID NO: 5):

```

T T T T T T T T T C T C T C T T G A G A T G G G A G T C T C G
C T C T G T C A C C C A G G C T G G A G T G C A G T G G C G T G
A T C T T G G C T C A C T G C A A C C T C T G C C T C C C A G G
T T C A A G C T A T T C T C C T G C C T C A G C C T C C T G A G
T A G C T G G G A T T A C A G A T G C C C G C C A C C A C G G C
T G G C T A A T T T T G T A T T T A A G T A G A G A T A G G G
T T T C A C C A T G T T G G C C A G G C T G T T C T G G A G C T
C C T G G C C T C A G G T G A T C C G C C C A C C C T C C G C C T
C C C A A A G

```

Fig 4 continued